

■ N-Type Solar Module

KEY FEATURES



Excellent performance in low-light environments



High quality junction box and connector systems



100% inspection, to guarantee the reliability of solar systems



Lower temperature



Anti PID



Enhanced safety by excellent fire resistance



Perfect for sandy, snowy and high latitude regions



Lower operating temperature, more reliable



Cutcell, Less internal power loss, Less mismatch loss

Full Screen

No Dust and Dirt on the Surface Increases Power Generation

GSPV-M10/144H-570-585W 570~585 Watt

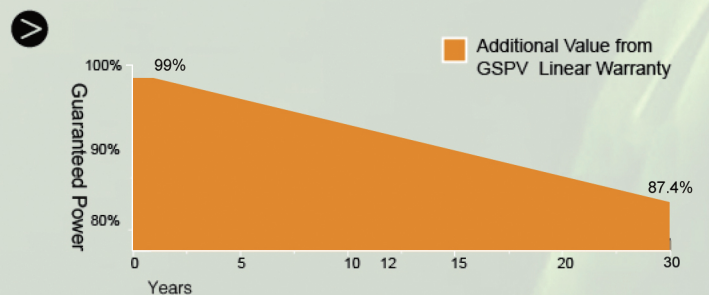
➤ 182mm 144 Cells Double Glass PV Solar Module

BLACK

*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

➤

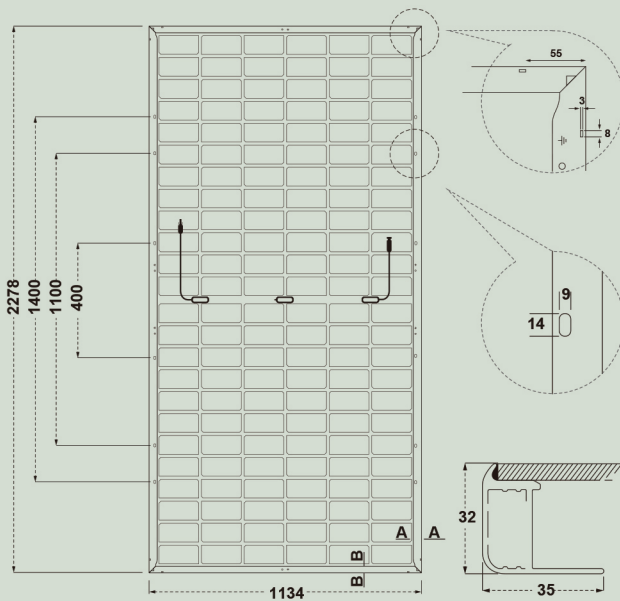
15 Years Product Workmanship Warranty	30 Years Power Warranty	0.40 % Annual Power Attenuation	CPIC
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IEC61215
IEC61730
UL61215
UL61730



Design



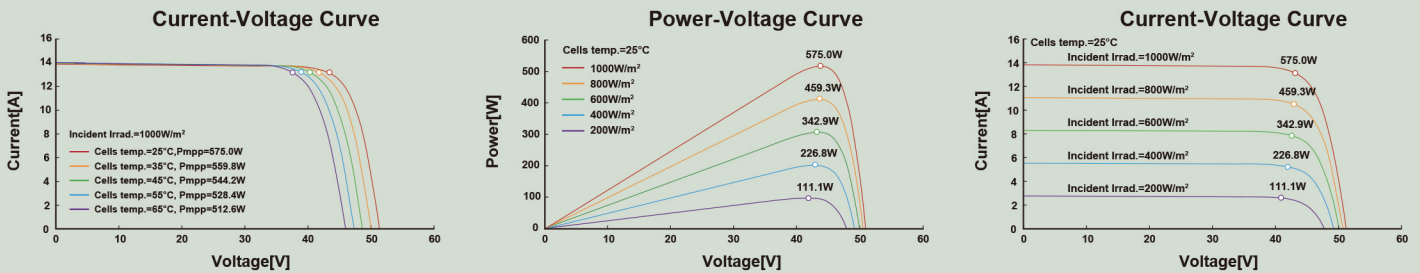
Mechanical Specification

Cable	4.0mm ² , 350/250mm in length,
(Including connector)	length can be customized
No.of Cells	144 (6×24)
Glass	2.0mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	32kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×32mm
Packing	34pcs/pallet, 680pcs/40HQ

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	30A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

I-V Curve



Electrical Characteristics

Module Type	GSPV-M10/144H-570-585W							
	STC	Noct	STC	Noct	STC	Noct	STC	Noct
Maximum Power (Pmax)	570	429	575	432	580	436	585	440
Open-circuit Voltage (Voc)	51.0	48.5	51.2	48.6	51.4	48.8	51.6	49.0
Maximum Power Voltage (Vmp)	43.2	41.0	43.4	41.2	43.6	41.4	43.8	41.6
Short-circuit Current (Isc)	14.02	11.32	14.08	11.37	14.14	11.42	14.20	11.46
Maximum Power Current (Imp)	13.19	10.44	13.25	10.49	13.30	10.53	13.36	10.57
Module Efficiency (STC)	22.07%		22.26%		22.45%		22.65%	

STC: Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT: Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Refer Bifacial Factor: 80±5%

Temperature Coefficient of Isc: 0.046%/°C

Temperature Coefficient of Voc: -0.25%/°C

Temperature Coefficient of Pmax: -0.30%/°C

Double-sided power generation parameters (Rear gain)

5%	Maximum Power (Pmax)	599	604	609	614.25
	Module Efficiency (%)	23.17	23.37	23.57	23.78
15%	Maximum Power (Pmax)	656	661	667	673
	Module Efficiency (%)	25.37	25.60	25.82	26.04
25%	Maximum Power (Pmax)	713	719	725	731
	Module Efficiency (%)	27.58	27.82	28.07	28.31